M 5.0, 13 km SSE of Volcano, Hawaii

Origin Time: 2023-12-05 03:53:46 UTC (Mon 17:53:46 local)
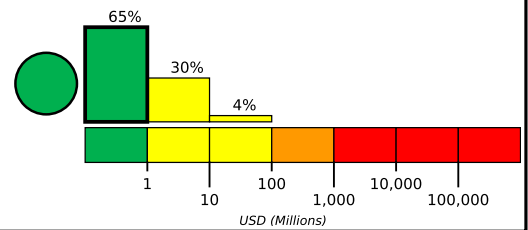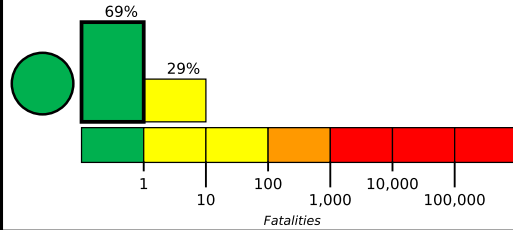Location: 19.3231° N 155.2186° W Depth: 10.4 km

Created: 1 day, 0 hours after earthquake

Estimated Fatalities

69%
29%

1   10   100   1,000   10,000   100,000
Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.
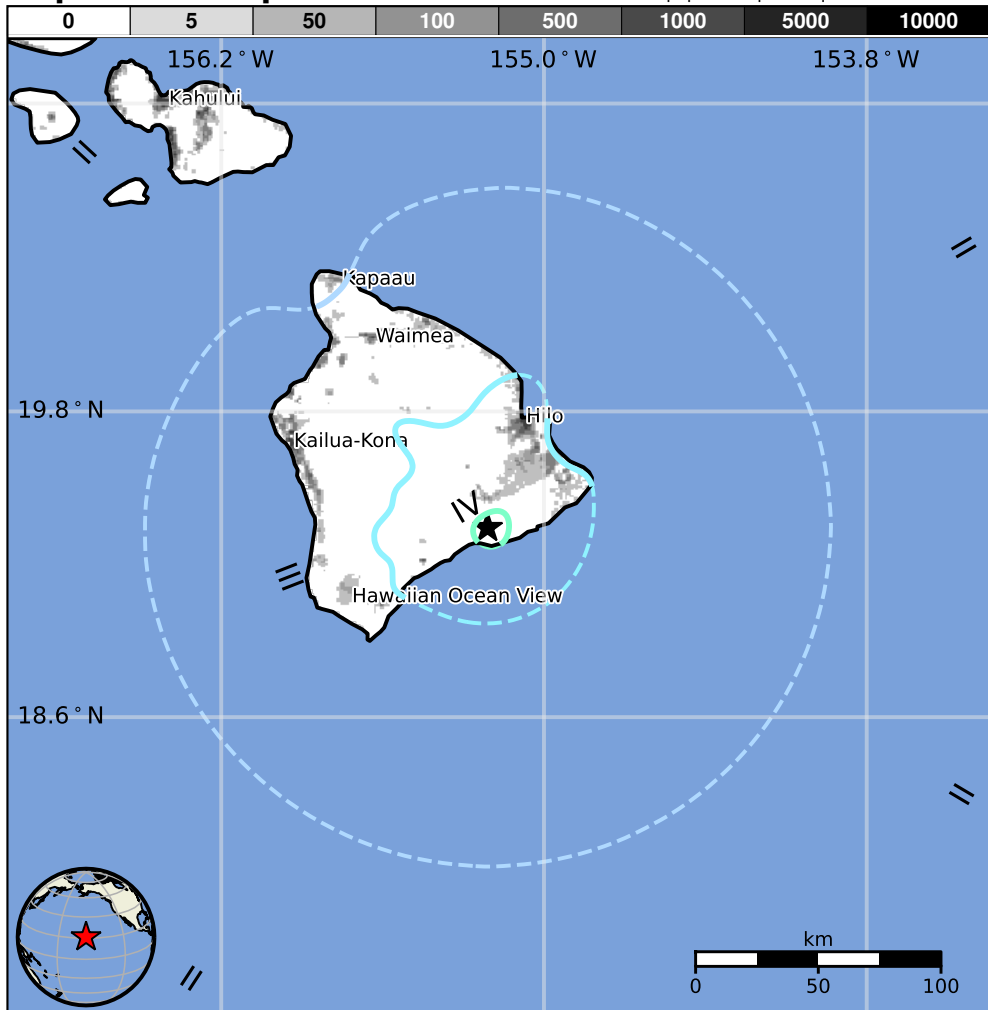
Estimated Economic Losses

65%
30%
4%

1   10   100   1,000   10,000   100,000
USD (Millions)

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	260k	101k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

0	5	50	100	500	1000	5000	10000

Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1973-04-26	70	6.2	VII(74k)	0
2006-10-15	100	6.7	VIII(15k)	0
1975-11-29	24	7.2	IX(30k)	2

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Papa'ikou	1k
IV	Fern Acres	2k
IV	Wainaku	1k
IV	Hawaiian Acres	3k
IV	**Hilo**	**43k**
IV	Mountain View	4k
III	**Kailua-Kona**	**12k**
II	**Kahului**	**26k**
II	Kihei	21k
II	Wailuku	15k
II	Lahaina	12k

bold cities appear on map.   (k = x1000)

Event ID: hv73673302